

11	20	29	38	47	56
5'TG CAG CAG AGG GAG ACC CGC GGC AAC CCC GGC AAC CCA GGC CTC GGC GTC GCT					
65	74	83	92	101	110
GCC ACC ATG ACG GGA AGC AAT ATG TCG GAC GCC TTG GCC AAC GCC GTG TGC CAG					
M T G S N M S D A L A N A V C Q					
119	128	137	146	155	164
CGC TGC CAG GCC CGC TTC TCC CCC GCC GAG CGC ATT GTC AAC AGC AAT GGC GAG					
R C Q A R F S P A E R I V N S N G E					
173	182	191	200	209	218
CTG TAC CAT GAG CAC TGC TTC GTG TGT GCC CAG TGC TTC CGG CCC TTC CCC GAG					
L Y H E H C F V C A Q C F R P F P E					
227	236	245	254	263	272
GGG CTC TTC TAT GAG TTT GAA GGC CGG AAG TAC TGC GAA CAC GAC TTC CAA ATG					
G L F Y E F E G R K Y C E H D F Q M					
281	290	299	308	317	326
CTG TTT GCT CCG TGC TGT TGA TCC TGC GGT GAG TTC ATC ATT GGC CGC GTC ATC					
L F A P C C G S C C G E F I I G R V I					
335	344	353	362	371	380
AAG GCC ATG AAC AAC TGG CAC CCG GGC TGC TTC CGC TGC GAG CTG TGT GAT					
K A M N N W H P G C F R C E L C D					

FIGURE 1A

389	GTG GAG CTG GCT GAC CTG GGC TTT GTG AAG AAT GCC GGC AGG CAT CTC TGC CGG	407	416	425	434
	V E L A D L G F V K N A G R H L C R				
443	CCT TGC CAC AAC CGT GAG AAG GCC AAG GGC CTG GGC AAG TAC ATC TGC CAG CGG	461	470	479	488
	P C H N R E K A K G G L G K Y I C Q R				
497	TGC CAC CTG GTC ATC GAC GAG CAG CCC CTC ATG TTC AGG AGC GAC GCC TAC CAC	515	524	533	542
	C H L V I D E Q P L M F R S D A Y H				
551	CCT GAC CAC TTC AAC TGC ACC CAC TGT GGG AAG GAG CTG ACA GCC GAG GCC CGC	569	578	587	596
	P D H F N C T H C G K E L T A E A R				
605	GAG CTG AAG GGT GAG CTC TAC TGC CCC TGC CAT GAC AAG ATG GGC GTC CCC	623	632	641	650
	E L K G G E L Y C L P C H D K M G V P				
659	ATC TGC GGG GCC TGC CGC CGG CCC ATC GAG GGC CGA GTG GTC AAC GCG CTG GGC	677	686	695	704
	I C G A C R R P I E G R V N A L G				
713	AAG CAG TGG CAC GTG GAG CAC TTT GTC TGT GCC AAG TGT GAG AAG CCA TTC CTG	722	731	740	749
	K Q W H V E H F V C A K C E K P F L				

FIGURE 1B

767	776	785	794	803	812
GGG CAC CGG CAC TAT GAG AAG AAG GGC CTG GCC TAC TGC GAG ACT CAC TAC AAC					
G H R C H Y E K K G L A Y C E T H Y N					
821	830	839	848	857	866
CAG CTC TTC GGG GAC GTC TGC TAC AAC TGC AGC CAT GTG ATT GAA GGC GAT GTG					
Q L F G D V C Y N C S H V I E G D V					
875	884	893	902	911	920
GTG TCG GCC CTC AAC AAG GCC TGG TGT GTG AGC TGC TTC TCC TGC TCC ACC TGC					
V S A L N K A W C V S C F S C S T C					
929	938	947	956	965	974
AAC AGC AAG CTC ACC CTG AAG AAC AAG TTT GTG GAG TTC GAC ATG AAG CCC GTG					
N S K L T L K N K F V E F D M K P V					
983	992	1001	1010	1019	1028
TGT AAG AGG TGC TAC GAG AAG TTC CCG CTG GAG CTG AAG AAG CGG CTG AAG AAG					
C K R C Y E K F P L E L K K R L K K					
1037	1046	1055	1064	1073	1082
CTG TCG GAG CTG ACC TCC CGC AAG GCC CAG CCC AAG GCC ACA GAC CTC AAC TCT					
L S E L T S R K A Q P K A T D L N S					
1091	1100	1109	1118	1127	1136
GCC TGA AGG CCC TCT TGC GCA CTG CCT CTC GGC CCC TCC GCC TTC TCC CCT CCT					
A					

FIGURE 1C

1145	1154	1163	1172	1181	1190
GCT GTC CAT GCT TGG CCC CCT CGT CCC CAT CCA CCT GTG CCC TCC GCA TCT TAC					
1199	1208	1217	1226	1235	1244
CCT CCC TTT CTC TTT CCT CAT TGC CTT CTC CCT TCC TGT TCC CTC ATC TCT GCC					
1253	1262	1271	1280	1289	1298
TTC CCC ATG TCT CTC CTC TCC TTG GCC GTG GCT TCT GTC TGT GAG GAG GCA GGA					
1307	1316	1325	1334	1343	1352
GCT GGG GAG TGG GAG CCT ATG ACC CCA CGT CTG ACA GCC ATG TCC ACC TGT GCC					
1361	1370	1379	1388	1397	1406
CAC AGC TTC CGC CCA CAG ACC TCC AGG GAC AGG AGC AAA TTG CAC CAC AGC TCC					
1415	1424	1433	1442	1451	1460
CCG CCT GGC CTG GCC CTC CCC AGG CGG CTC AGT GGC TCA TGC TGT CCT GTG AGA					
1469	1478	1487	1496	1505	1514
GCC CCT GCC CCA GAG CGG CCC CAC TAA GCG CAT GTG GCT CCT GGG CTA CCC ACA					
1523	1532	1541	1550	1559	1568
GCC AGG GCA GCC TGC TGG AGC CAC AGG GCC AGG GCC ATG CAG ATG GAG GCC TCT					
1577	1586	1595	1604	1613	1622
GGG AGC CAC CTC CAA TCC CTC ACC ACT CAC TCA ACC AGT GGC ACA GTG TCC TTG					
1631	1640	1649	1658	1667	1676
TGC CCA CAC TGA GCC AGC AAG TCC TGC TGT CCA CAC CCA CAA GCT ACC TGG AGG					

1685 1694 1703 1712 1721 1730  
GAC AGG ACC CAC CTC CAT CCT TCG GAA GGC CTT CCT GGA ATC CCA CCT TGG CCT

1739 1748 1757 1766 1775 1784  
CCG CCC TCG GTT CCG CCC CGC CCT CCC CCC GAC CTT GGG GCT TGT GTC GAG

1793 1802 1811 1820 1829 1838  
CCC TTG GGT GGG GCC AGG AGG AGG TGA TGG CGT CAG AGG AGG TGT GGT CAG AGG

1847 1856 1865 1874 1883 1892  
TGA CTT GTT CCC ACC TCC AGG GAG GAC GCT TCG TCT TCG GCC AGC GCA GAC CTG

1901 1910 1919 1928 1937 1946  
GTG TTT GTT TGT TTG TTG GGT CAC GCT TGC ACA ATG AAG GCT TGT TCA CAC AAA

1955  
AAA AAA AAA AAA A 3

FIGURE 1E

1	M	T	G	S	N	M	S	D	A	L	A	N	A	V	C	Q	R	C	Q	A	R	F	S	P	A	E	R	I	V	N	3540806
1	-	-	-	-	-	M	A	N	A	L	A	S	A	T	C	E	R	C	K	G	G	F	A	P	A	E	K	I	V	N	GI 516012
31	S	N	G	E	L	Y	H	E	H	C	F	V	C	A	Q	C	F	R	P	F	P	E	G	L	F	Y	E	F	E	G	3540806
26	S	N	G	E	L	Y	H	E	Q	C	F	V	C	A	Q	C	F	Q	Q	F	P	E	G	L	F	Y	E	F	E	G	GI 516012
61	R	K	Y	C	E	H	D	F	Q	M	L	F	A	P	C	C	G	S	C	G	E	F	I	I	G	R	V	I	K	A	3540806
56	R	K	Y	C	E	H	D	F	Q	M	L	F	A	P	C	C	H	Q	C	G	E	F	I	I	G	R	V	I	K	A	GI 516012
91	M	N	N	N	W	H	P	G	C	F	R	C	E	L	C	D	V	E	L	A	D	L	G	F	V	K	N	A	G	R	3540806
86	M	N	N	S	W	H	P	E	C	F	R	C	D	L	C	Q	E	V	L	A	D	I	G	F	V	K	N	A	G	R	GI 516012
121	H	L	C	R	P	C	H	N	R	E	K	A	K	G	L	G	K	Y	I	C	Q	R	C	H	L	V	I	D	E	Q	3540806
116	H	L	C	R	P	C	H	N	R	E	K	A	R	G	L	G	K	Y	I	C	Q	K	C	H	A	I	I	D	E	Q	GI 516012
151	P	L	M	F	R	S	D	A	Y	H	P	D	H	F	N	C	T	H	C	G	K	E	L	T	A	E	A	R	E	L	3540806
146	P	L	I	F	K	N	D	P	Y	H	P	D	H	F	N	C	A	N	C	G	K	E	L	T	A	D	A	R	E	L	GI 516012
181	K	G	E	L	Y	C	L	P	C	H	D	K	M	G	V	P	I	C	G	A	C	R	R	P	I	E	G	R	V	V	3540806
176	K	G	E	L	Y	C	L	P	C	H	D	K	M	G	V	P	I	C	G	A	C	R	R	P	I	E	G	R	V	V	GI 516012
211	N	A	L	G	K	Q	W	H	V	E	H	F	V	C	A	K	C	E	K	P	F	L	G	H	R	H	Y	E	K	K	3540806
206	N	A	M	G	K	Q	W	H	V	E	H	F	V	C	A	K	C	E	K	P	F	L	G	H	R	H	Y	E	R	K	GI 516012
241	G	L	A	Y	C	E	T	H	Y	N	Q	L	F	G	D	V	C	Y	N	C	S	H	V	I	E	G	D	V	V	S	3540806
236	G	L	A	Y	C	E	T	H	Y	N	Q	L	F	G	D	V	C	F	H	C	N	R	V	I	E	G	D	V	V	S	GI 516012

FIGURE 2A

271 A L N K A W C V S C F S C S T C N S K L T L K N K F V E F D 3540806  
266 A L N K A W C V N C F A C S T C N T K L T L K N K F V E F D GI 516012

301 M K P V C K R C Y E K F P L E L K K R L K K L S E L T S R K 3540806  
296 M K P V C K K C Y E - - - - - I S I G GI 516012

331 A Q P K A T D L N S A  
310 A E E K T 3540806  
GI 516012

FIGURE 2B